

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/578,839  
Source: IFWP  
Date Processed by STIC: 05/22/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/578,839

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ Wrapped Nucleics  
1 ☒ Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length      The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino  
3 ☐ Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 ☐ Non-ASCII      The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5 ☐ Variable Length      Sequence(s) ☐ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0  
6 ☐ "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) ☐. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 ☐ Skipped Sequences  
(OLD RULES)      Sequence(s) ☐ missing. If intentional, please insert the following lines for **each** skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 ☐ Skipped Sequences  
(NEW RULES)      Sequence(s) ☐ missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 ☐ Use of n's or Xaa's  
(NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 ☒ Invalid <213>  
10 ☒ Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 ☐ Use of <220>      Sequence(s) ☐ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12 ☐ PatentIn 2.0  
12 ☐ "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n/Xaa      "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

## RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,839

TIME: 14:20:55

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

3 <110> APPLICANT: INJE UNIVERSITY  
 5 <120> TITLE OF INVENTION: CANCER CELL TARGETING GENE DELIVERY METHOD  
 7 <130> FILE REFERENCE: Q94769  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/578,839  
 C--> 9 <141> CURRENT FILING DATE: 2006-05-10  
 9 <150> PRIOR APPLICATION NUMBER: KR 10-2003-0079897  
 10 <151> PRIOR FILING DATE: 1003-11-12  
 12 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/000545  
 13 <151> PRIOR FILING DATE: 2004-03-15  
 15 <160> NUMBER OF SEQ ID NOS: 11  
 17 <170> SOFTWARE: KopatentIn 1.71  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 36  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Env F primer  
 28 <400> SEQUENCE: 1  
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 33 <211> LENGTH: 47  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: 597LN primer  
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 46 <211> LENGTH: 49  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence  
 50 <220> FEATURE:  
 51 <223> OTHER INFORMATION: LC597 primer  
 54 <400> SEQUENCE: 3  
 55  
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 58 <210> SEQ ID NO: 4  
 59 <211> LENGTH: 35  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Artificial Sequence  
 63 <220> FEATURE:  
 64 <223> OTHER INFORMATION: Spike R2 primer

Does Not Comply  
Corrected Diskette Needed

*(pg -1, 3, 4 - 11)*  
*Wrapped Sequences.*  
*Pls See pg - 3*

36

47

49

67 <400> SEQUENCE: 4

68

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35

<110> APPLICANT: INJE UNIVERSITY  
 <120> TITLE OF INVENTION: CANCER CELL TARGETING GENE DELIVERY METHOD  
 <130> FILE REFERENCE: Q94769  
 <140> CURRENT APPLICATION NUMBER: US/10/578,839  
 <141> CURRENT FILING DATE: 2006-05-10  
 <150> PRIOR APPLICATION NUMBER: KR 10-2003-0079897  
 <151> PRIOR FILING DATE: 1003-11-12  
 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/000545  
 <151> PRIOR FILING DATE: 2004-03-15  
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 <170> SOFTWARE: KopatentIn 1.71

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36

<210> SEQ ID NO 2  
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 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: 597LN primer  
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47

Same Error

The type of errors shown exist throughout  
 the Sequence Listing. Please check subsequent  
 sequences for similar errors.

The number is  
 wrapped down to  
 the next line. Pls  
 see glem 1 on  
 Error Summary  
 sheet.

<210> 8  
<211> 786  
<212> DNA  
<213> Tag-72pS1

Invalid Response. L2137 Responses  
can be either Artificial, Unknown  
or Genus Species. Pls see  
Item 10 on Error Summary  
Sheet.

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,839

DATE: 05/22/2006

TIME: 14:20:55

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

71 <210> SEQ ID NO: 5  
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77 <223> OTHER INFORMATION: LnkNScFv primer  
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84 <210> SEQ ID NO: 6  
85 <211> LENGTH: 36  
86 <212> TYPE: DNA  
87 <213> ORGANISM: Artificial Sequence  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: ScFvLnkC primer  
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94  
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97 <210> SEQ ID NO: 7  
98 <211> LENGTH: 2058  
99 <212> TYPE: DNA  
100 <213> ORGANISM: SEATO type of GaLV Env glycoprotein  
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103 <221> NAME/KEY: sig\_peptide  
104 <222> LOCATION: (1)..(126)  
106 <220> FEATURE:  
107 <221> NAME/KEY: misc\_feature  
108 <222> LOCATION: (127)..(1467)  
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115 <223> OTHER INFORMATION: transmembrain domain  
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123  
gggacgagtc tgcaaaataa gaacccccac cagcccatga ccctcacttg gcaggtactg 180  
125  
tcccaaactg gagacgttgt ctgggataca aaggcagtc agcccccttg gacttggtgg 240  
127  
cccacactta aacctgatgt atgtgccttg gcggttagtc ttgagtcctg ggatatcccg 300  
129  
ggaaccgatg tctcgtcctc taaacgagtc agacctccg actcagacta tactgccgct 360  
131  
tataagcaaa tcacctgggg agccataggg tgcagctacc ctcggttag gactagaatg 420  
133  
gcaagctcta ctttctacgt atgtccccgg gatggccgga ccctttcaga agctagaagg 480  
135  
tgcggggggc tagaatccct atactgtaaa gaatgggatt gtgagaccac ggggaccggt 540  
137

Same Error  
wrappe  
Sequence

tattggctat	ctaaatcctc	aaaagacctc	ataactgtaa	aatgggacca	aaatagcgaa	600
139						
tggactcaaa	aatttcaaca	gtgtcaccag	accggctggg	gtaacccctt	taaaatagat	660
141						
ttcacagaca	aaggaaaatt	atccaaggac	tggataacgg	gaaaaacctg	gggattaaga	720
143						
ttctatgtgt	ctggacatcc	aggcgtacag	ttcaccattc	gcttaaaaat	caccaacatg	780
145						
ccagctgtgg	cagtaggtcc	tgacctcgtc	cttgtggaac	aaggacctcc	tagaacgtcc	840
147						
ctcgctctcc	cacctctctt	tcccccaagg	gaagcgccac	cgccatctct	ccccgactct	900
149						
aactccacag	ccctggcgac	tagtgcacaa	actcccacgg	tgagaaaaac	aattgttacc	960
151						
ctaaacactc	cgctccccc	cacaggcgac	agactttttg	atcttgtgca	gggggccttc	1020

*Same Error*



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PATENT APPLICATION: US/10/578,839

DATE: 05/22/2006

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Input Set : A:\Q94769 sequence listing.txt

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```

153
: ctaaccttaa atgctaccaa cccagggggcc actgagtctt gctggctttg tttggccatg      1080
155
ggccccccctt attatgaagc aatagcctca tcaggagagg tcgcctactc caccgacctt      1140
157
gaccggtgcc gctggggggac ccaaggaaag ctcaccctca ctgaggtctc aggacacggg      1200
159
ttgtgcatag gaaaggtgcc ctttaccat cagcatctct gcaatcagac cctatccatc      1260
161
aattcctccg gagaccatca gtatctgctc ccctccaacc atagctggtg ggcttgcagc      1320
163
actggcctca ccccttgctt ctccacctca gtttttaatc agactagaga tttctgtatc      1380
165
caggtccagc tgattcctcg catctattac tatcctgaag aagttttgtt acaggcctat      1440
167
gacaattctc accccaggac taaaagagag gctgtctcac ttaccctagc tgttttactg      1500
169
gggttgggaa tcacggcggg aataggtact ggttcaactg ccttaattaa aggacctata      1560
171
gacctccagc aaggcctgac aagcctccag atcgccatag atgctgacct ccggggccctc      1620
173
caagactcag tcagcaagtt agaggactca ctgacttccc tgtccgaggt agtgctccaa      1680
175
aataggagag gccttgactt gctgtttcta aaagaagggt gcctctgtgc ggccctaaag      1740
177
gaagagtgtc gtttttacat agaccactca ggtgcagtac gggactccat gaaaaaactc      1800
179
aaagaaaaac tggataaaaag acagtttagag cgccagaaaa gccaaaactg gtatgaagga      1860
181
tggttcaata actccccttg gttcactacc ctgctatcaa ccatcgctgg gccctatta      1920
183
ctcctccttc tggtgctcat cctcgggcca tgcacatca ataagttagt tcaattcatc      1980
185
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187
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190 <210> SEQ ID NO: 8
191 <211> LENGTH: 786
192 <212> TYPE: DNA
193 <213> ORGANISM: Tag-72pS1
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (346)..(390)
198 <223> OTHER INFORMATION: (Gly4Ser)3 linker
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (739)..(777)
204 <223> OTHER INFORMATION: PreS1 Tag
207 <400> SEQUENCE: 8
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210
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```

Sequence

212	cctggacaac gccttgagtg gatgggatat ttttctcctg gcaacgatga ttttaaatac	180
214	tcccagaagt tccagggacg cgtgacaatc actgcagaca aatccgagag cacagcctac	240
216	atggagctga gcagcctgag atctgaggac acggcggtct attactgtgc aagatcgttg	300
218	aacatggcat actggggcca agggactctg gtcactgtct cttcagggtg aggcggttca	360
220	ggcggaggtg gctctggcgg tggcggatcg gacattgtga tgaccagtc tccagactcc	420
222	ctggctgtgt ctctgggcga gagggccacc atcaactgca agtccagcca gagtgtttta	480
224	tacagcagca acaataagaa ctacttagct tgggtaccagc agaaaccagg acagcctcct	540
226	aagctgctca tttactgggc atctaccggg gaatccgggg tccctgaccg attcagtggc	600
228	agcgggtctg ggacagattt cactctcacc atcagcagcc tgcaggctga agatgtggca	660
230	gtttattact gtcagcaata ttattcctat ccgttgacgt tcggccaagg gaccaaggtg	720
232	gaaatcaaag cggccgcagg agccaacgca aacaatccag attgggactt caaccccgcc	780
234	gcatag	786
237	<210> SEQ ID NO: 9	
238	<211> LENGTH: 13	
239	<212> TYPE: PRT	
240	<213> ORGANISM: PreS1 epitope at C-terminal of Tag-72pS1	

Same  
Error

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PATENT APPLICATION: US/10/578,839

TIME: 14:20:55

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

242 &lt;400&gt; SEQUENCE: 9

243 Gly Ala Asn Ala Asn Asn Pro Asp Trp Asp Phe Asn Pro

244 1 5 10

247 &lt;210&gt; SEQ ID NO: 10

248 &lt;211&gt; LENGTH: 2871

249 &lt;212&gt; TYPE: DNA

250 &lt;213&gt; ORGANISM: Artificial Sequence

252 &lt;220&gt; FEATURE:

253 &lt;223&gt; OTHER INFORMATION: ScFv-GaLV Env GP chimeric peptide (FvGEL199) DNA

256 &lt;400&gt; SEQUENCE: 10

257

atggtattgc tgcctgggtc catgcttctc acctcaaacc tgcaccacct tcggcaccag	60
259	
atgagtcctg ggagctggaa aagactgac atcctcttaa gctgcgtatt cggcggcggc	120
261	
gggacgagtc tgcaaaataa gaacccccac cagcccatga ccctcacttg gcaggtactg	180
263	
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265	
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267	
ggaaccgatg tctcgtcctc taaacgagtc agacctccgg actcagacta tactgccgct	360
269	
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271	
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273	
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275	
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277	
ggtggtggca gccaggtcca gctagtgcag tctggggctg aagtgaagaa gcctggggct	660
279	
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281	
gtgcgccagg cccctggaca acgccttgag tggatgggat atttttctcc tggcaacgat	780
283	
gattttaaat actcccagaa gttccaggga cgcgtgacaa tcaactgcaga caaatccgcg	840
285	
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287	
gcaagatcgt tgaacatggc atactggggc caagggactc tggtcactgt ctcttcagg	960
289	
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291	
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293	
cagagtgttt tatacagcag caacaataag aactacttag cttggtacca gcagaaacca	1140
295	
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297	
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299	

Same  
Error

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gggaccaagg tggaaatcaa agcggccgca ggagccaacg caaacaatcc agattgggac 303	1380
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tcagttttta atcagactag agatttctgt atccaggctc agctgattcc tcgcatctat 331	2220
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Same  
Error

## RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,839

TIME: 14:20:55

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

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 337  
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 339  
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 341  
 ctaaaagaag gtggcctctg tgcggcccta aaggaagagt gctgttttta catagaccac 2580  
 343  
 tcagggtgcag tacgggactc catgaaaaaa ctcaaagaaa aactggataa aagacagtta 2640  
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 347  
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 ccatgcatca tcaataagtt agttcaattc atcaatgata ggataagtgc agttaaaatt 2820  
 351  
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 354 <210> SEQ ID NO: 11  
 355 <211> LENGTH: 956  
 356 <212> TYPE: PRT  
 357 <213> ORGANISM: Artificial Sequence  
 359 <220> FEATURE:  
 360 <223> OTHER INFORMATION: ScFv-GaLV Env GP chimeric ligand (FvGEL199)  
 363 <400> SEQUENCE: 11  
 364 Met Val Leu Leu Pro Gly Ser Met Leu Leu Thr Ser Asn Leu His His  
 365 1 5 10 15  
 367 Leu Arg His Gln Met Ser Pro Gly Ser Trp Lys Arg Leu Ile Ile Leu  
 368 20 25 30  
 370 Leu Ser Cys Val Phe Gly Gly Gly Gly Thr Ser Leu Gln Asn Lys Asn  
 371 35 40 45  
 373 Pro His Gln Pro Met Thr Leu Thr Trp Gln Val Leu Ser Gln Thr Gly  
 374 50 55 60  
 376 Asp Val Val Trp Asp Thr Lys Ala Val Gln Pro Pro Trp Thr Trp Trp  
 377 65 70 75 80  
 379 Pro Thr Leu Lys Pro Asp Val Cys Ala Leu Ala Ala Ser Leu Glu Ser  
 380 85 90 95  
 382 Trp Asp Ile Pro Gly Thr Asp Val Ser Ser Ser Lys Arg Val Arg Pro  
 383 100 105 110  
 385 Pro Asp Ser Asp Tyr Thr Ala Ala Tyr Lys Gln Ile Thr Trp Gly Ala  
 386 115 120 125  
 388 Ile Gly Cys Ser Tyr Pro Arg Ala Arg Thr Arg Met Ala Ser Ser Thr  
 389 130 135 140  
 391 Phe Tyr Val Cys Pro Arg Asp Gly Arg Thr Leu Ser Glu Ala Arg Arg  
 392 145 150 155 160  
 394 Cys Gly Gly Leu Glu Ser Leu Tyr Cys Lys Glu Trp Asp Cys Glu Thr  
 395 165 170 175  
 397 Thr Gly Thr Gly Tyr Trp Leu Ser Lys Ser Ser Lys Asp Leu Ile Thr  
 398 180 185 190  
 400 Val Lys Trp Asp Gln Asn Ser Gly Gly Gly Gly Ser Gln Val Gln Leu  
 401 195 200 205  
 403 Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val  
 404 210 215 220

406 Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp His Ala Ile His Trp  
407 225 230 235 240  
409 Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met Gly Tyr Phe Ser  
410 245 250 255  
412 Pro Gly Asn Asp Asp Phe Lys Tyr Ser Gln Lys Phe Gln Gly Arg Val

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/578,839

DATE: 05/22/2006

TIME: 14:20:56

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date